

DAFTAR PUSTAKA

- Ahmed, E.M., 2013, *Hydrogel: Preparation, Characterization, and Applications: A review*, Department of Chemical Engineering & Pilot Plant, National Research Centre, Egypt.
- Aisha, A.F.A., Abu-Shalah, K.M., Siddiqui, M.J., Ismail, Z., Majid, A.M.S.A., 2012, Quantification of α -, β - and γ -mangostin in *Garcinia mangostana* Fruit Rind Extracts by A Reverse Phase High Performance Liquid Chromatography, *Journal of Medicinal Plants Research*, **6**, 29.
- Al-habib, A., Al-saleh, E., Safer, A.M., Afzal, M., 2010, Bactericidal Effect of Grape Seed Extract on Methicillin-Resistant *Staphylococcus aureus* (MRSA), *The Journal of Toxicological Sciences*, Vol. **35**, no. 3, pp. 357-364.
- Allen, L.V., 2002, *The Art, Science and Technology of Pharmaceutical Compounding*, Second Edition, 170-173, 183, 187, American Pharmaceutical Association, Washington D.C.
- Ananingrum, G.W., 2017, Formulasi Ekstrak Kulit Buah Manggis (*Garcinia mangostana* L.) dalam Pembawa Campuran Propilen Glikol-air dan Uji Transpor Secara *In Vitro*, *Skripsi*, Fakultas Farmasi, Universitas Gadjah Mada, Yogyakarta.
- Aziz, M.A., 2015, Uji Aktivitas Antibakteri Ekstrak Etanol Kulit Buah Manggis (*Garcinia mangostana* L.) Terhadap Bakteri *Escherichia coli* ATCC 11229 dan *Staphylococcus aureus* ATCC 6538 Secara *In Vitro*, *Skripsi*, Fakultas Kedokteran, Universitas Muhammadiyah Surakarta.
- Badan Standarisasi Nasional, 2015, *Cara Uji Mikrobiologi- Bagian 9. Penentuan Staphylococcus aureus Pada Produk Perikanan*, Badan Standar Nasional, Jakarta.
- Balasubramanian, K., Rajagopalan, K., 1988, Novel xanthenes from *Garcinia mangostana*, structures of BR-xanthone-A and BR-xanthone-B, *Phytochemistry*, **27**, 1552–1554.
- Brooks, G., F., Butel, J.S., dan Morse, S.A., 2004, *Mikrobiologi Kedokteran*, Edisi 1, EGC, Jakarta.
- Chen, L.G., Yang, L.L., Wang, C.C., 2008, Anti-inflammatory Activity of Mangostins from *Garcinia mangostana*, *Food Chem Toxicol*, **46**, 688-693.
- Chomnawang, M.T., Surassmo, S., Wongsariya, K., Bunyaphrathasara, N., 2009, Antibacterial Activity of Thai Medicinal Plants Against Methicillin-Resistant *Staphylococcus aureus*, *Fitoterapia*, **80**, 102-104.

- Chopra, R.N., Nayar, S.L., Chopra, I.C., 1956, *Glossary of Indian Medicinal Plants*, The National Institute of Science Communication and Information Resources, p. 123, Nueva Delhi, India.
- Dwiastuti, R., 2010, Pengaruh Penambahan CMC (*Carboxymethyl Cellulose*) Sebagai *Gelling Agent* dan Propilen Glikol Sebagai Humektan Dalam Sediaan *Sunscreen* Ekstrak Kering Polifenol Teh Hijau (*Camellia Sinensis* L), *Jurnal Penelitian Vol. 13*, No.2.
- Erawati, T., Rosita, N., Hendropasetyo, W., Juwita, D.R., 2013, Pengaruh Jenis Basis Gel dan Penambahan NaCl (0,5% b/b) terhadap Intensitas *Echo* Gelombang Ultrasonik Sediaan Gel Untuk Pemeriksaan USG (Acoustic Coupling Agent), *Laporan Penelitian*, Fakultas Farmasi Universitas Airlangga dan Teknik Perkapalan Institusi Teknologi Sepuluh November, Surabaya.
- Garnett, M., Sturton, S.D., 1932, *Garcinia mangostana* in the treatment of amoebic dysentery, *Chin. Med. J.*, **XLVI**, 969–973.
- Glicksman M., 1983, *Food Hydrocolloids*, Vol. II, CRC Press, Boca Raton.
- Gutierrez-Orozco, F., dan Failla, M.L., 2013, *Biological Activities and Bioavailability of Mangosteen Xanthenes: A Critical Review of The Current Evidence*, *Nutrients*, 5, 3163-83.
- Herlina, N., Fifi, A., Aditia, D.C., Poppy, D.H., Qurotunnada, dan Baharuddin, T., 2015, Isolasi dan Identifikasi *Staphylococcus aureus* dari susu mastitis subklinis di Tasikmalaya, *Pros Sem Nas Biodiv Indon*, **1**(3), 413-417, Jawa Barat.
- Ho, C.K., Huang, Y.L., Chen, C.C., 2002, Garcinone E, A Xanthone derivative, Has Potent Cytotoxic Effects Against Hepatocellular Carcinoma Cell Lines, *Planta Med*, **68**(11), 975-979.
- Ibrahim, M.Y., Hasim, N.M., Mariod, A.M., Mohan, S., Abdulla, M.A., Abdelwahab, S.I., *et al.*, 2014, α -Mangostin from *Garcinia mangostana* Linn. : An Updated Review of Its Pharmacological Properties, *Arab J Chem*, **4**, 123-129.
- Ijong, F.G., 2015, *Mikrobiologi Perikanan dan Kelautan*, Rineka Cipta, Jakarta.
- Inuma, M., Tosa, H., Tanaka, T., Asai, F., Kobayashi, Y., Shimano, R., Miyauchi, K.I., 1996, Antibacterial Activity of Xanthenes from Guttiferaceous Plants Against Methicillin-Resistant *Staphylococcus aureus*, *J Pharm Pharmacol*, **48**, 861-865.
- Istiantora, Y.H., dan Gan, V., 1995, *Penicillin, Cephalosporin dan Antibiotika β -laktam lainnya*, dalam Farmakologi dan Terapi, edisi ke-4, 622-650, FKUI, Jakarta.

- Jawetz, E. *et al.*, 1995, Review of Medical Microbiology, *Lange Medical Publication*, Los Altos, California, pages 227-230.
- Jung, H.A., Su, B.N., Keller, W.J., Mehta, R.G., Kinghorn, D., 2006, Antioxidant Xanthones from pericarp of *Garcinia mangostana* (Mangosteen), *J. Agric. Food. Chem.*, **54**, 2077–2082.
- Kuncari, E. S., Iskandarsyah, dan Praptiwi., 2014, Evaluasi, Uji Stabilitas Fisik Dan Sineresis Sediaan Gel yang Mengandung Minoksidil, Apigenin dan Perasan Herba Seledri (*Apium Graveolens* L.), *Buletin Penelitian Kesehatan*, **42** (4), 213-222.
- Koh, J.J., Qiu, S., Zou, H., Lakshminarayanan, R., Li, J., Zhou, X., Tang, C., Saraswathi, P., Verma, C., Tan, D.T.H., *et al.*, 2013, *Rapid Bactericidal Action of Alpha-mangostin Against MRSA as An Outcome of Membrane Targetting*, *Biochimica et Biophysica Acta*, 1828, pp 834-844.
- Krisnamurti, D.G.B., 2005, Pengaruh Kadar Propilen Glikol Terhadap Stabilitas, Aseptabilitas dan Efektivitas Pelembab Aloe vera dalam Sediaan Berbasis Hidrofilik Ointment, *Skripsi*, Fakultas Farmasi, Universitas Airlangga, Surabaya.
- Kulicke, W.M., Reinhardt, U., Fuller, G.G., Arendt, O., 1996, Characterization of Aqueous Carboxymethylcellulose Solutions in Terms of Their Molecular Structure and its Influence on Rheological Behaviour, *Polymer*, **37**(13), 2723-2731.
- Lay, B.W., 1994, *Analisa Mikroba di Laboratorium*, Raja Grafindo Persada, Jakarta.
- Lesmana, I., 2017, Pengaruh Etanol pada Formulasi Gel Ekstrak Kering Kulit Buah Manggis (*Garcinia mangostana* L.), Sifat Fisik, Daya Antioksidan, dan Kemampuan Difusinya Melalui Membran, *Skripsi*, Fakultas Farmasi, Universitas Gadjah Mada, Yogyakarta.
- Lieberman, A. H., Rieger, M. M., dan Banker S. G., 1998, *Pharmaceutical Dosage Forms: Disperse System*, 2nd Ed., Revised and Expanded, 3, 265-267, 272-273, Marcell dekker, Inc., New York.
- Lim, Y.S., Lee, S.S.H., Tan, B.C., 2013, Antioxidant Capacity and Antibacterial Activity of Different Parts of Mangosteen (*Garcinia mangostana* Linn.) Extracts, *Fruits*, Vol. **68**, pp. 483-489.
- Lutpiatina, L., 2015, Efektivitas Ekstrak Propolis Lebah Kelutut (*Trigona spp*) Dalam Menghambat Pertumbuhan *Salmonella typhi*, *Staphylococcus aureus* dan *Candida albicans*, *Jurnal Skala kesehatan*, Vol. **6** No. 1.
- Mahabusarakam, W., Wiriyaচিত্র, P., Phongpichit, S., 1986, Antimicrobial Activities of Chemical Constituents from *Garcinia mangostana* Linn., *J Sci Soc Thailand*, **12**, 239-242.

- Mahabusarakam, W., Wiriyachtra, P., Taylor, W., 1987, Chemical constituents of *Garcinia mangostana*, *J. Nat. Prod.*, **50**, 474–478.
- Mappa, T., Edy, H.J., Kojong, N., 2013, Formulasi gel ekstrak daun sasaladahan (*Peperomia pellucida* L.) dan uji efektivitasnya terhadap luka bakar pada kelinci (*Oryctolagus cuniculus*), *Jurnal Ilmiah Farmasi*, **2**(2), 49-55.
- Martin, A.J., Swarbrick, dan Cammarata, A., 1993, *Farmasi Fisik: Dasar-dasar Farmasi Fisik dalam Ilmu Farmasetik*, Edisi Ketiga, Penerjemah: Yoshita, Jakarta: UI-Press, hal. 1176-1182.
- Martin, A.N., Swarbrick, J., Cammarata, A., 1993, *Physical Pharmacy 3 rd Edition*, Lea and Febiger Publisher, London, 522-537.
- Maulina, L., dan Sugihartini, N., 2015, Formulasi Gel Ekstrak Etanol Kulit Buah Manggis (*Garcinia mangostana* L.) dengan Variasi Gelling Agent Sebagai Sediaan Luka Bakar, *Pharmaciana*, **5**(1), pp.43–52.
- Miller L.S., dan John S.C, 2001, Immunity Against *Staphylococcus aureus* Cutaneous Infections, *Nature Reviews Immunology*, **11**, 505-518.
- Moongkarndi, P., Kosem, N., Luanratana, O., Jongsomboonkusol, S., Pongpan, N., 2004, Antiproliferative Activity of Thai Medicinal Plant Extracts on human breast Adenocarcinoma Cell Line, *Fitoterapia*, **75**, 375-377.
- Morton, J., 1987, *Fruits from Warm Climate*, Creative Resource Systems Inc., Miami, USA, p. 304.
- Naibaho, D.H., Yamkan, V.Y., Weni, Wiyono., 2013, Pengaruh Basis Salep Terhadap Formulasi Sediaan Salep Ekstrak Daun Kemangi (*Ocimum sanctum* L.) pada Kulit Punggung Kelinci yang dibuat Infeksi *Staphylococcus aureus*, *Jurnal ilmiah Farmasi – UNSRAT*, Vol. **2**, No. 02.
- Niazi, S.K., 2004, *Hanbook of pharmaceutical manufacturing formulations: semisolid products*, CRC Press LLC, Florida.
- Nilawati, A., Sulaiman, T.S., Sasmita, E., 2015, Pengaruh Metil Selulosa 4000 dan Propilen Glikol Terhadap Stabilitas Fisik Gel Vitamin C, *Jurnal Farmasi Indonesia*, Vol. **12**, No.02, hal 164-178.
- Pankey, G.A., dan Sabath, L.D., 2004, Clinical Relevance of Bacteriostatic Versus Bactericidal Mechanisms of Action in the Treatment of Gram-Positive Bacterial Infections, *Clinical Infectious Diseases*, Vol. **38**, pp. 864-870.
- Pierce, S.C., 2003, *A Thai Herbal*, Findhorn Press, Scotland, UK, p. 118.
- Pitojo, S., dan Hesti, N.P., 2007, *Budidaya Manggis*, Aneka Ilmu, Semarang.
- Poeloengan, M., dan Pratiwi, 2010, Uji Aktivitas Antibakteri Ekstrak Kulit Buah Manggis (*Garcinia mangostana* Linn.), *Media Litbang Kesehatan*, Vol. **20** No. 2, 67-68.

- Pothitirat, W., Gritsanapan, W., 2008, Quantitative Analysis of Total Mangostins In *Garcinia mangostana* Fruit Rind, *J Health Res*, **22**(4), 161-166.
- Ragasa, C. Y., 1 Crisostomo, C. J., Garcia, K. D. C., Shen, C., 2010, *Antimicrobial Xanthoness from Garcinia mangostana L. The Phillipine Scientist*, 47, pp 64-75.
- Rahmi, Y., Darmawi, Mahdi, A., Faisal, J., Fakhrurrazi, dan Yudha, F., 2015, Identification of *Staphylococcus aureus* in Preputium and Vagina of Horses (*Equus caballus*), *Journal Medika Veterinaria*, **9**(2), 15-158.
- Retnowati, Y., Nurhayati, B., dan Nona, W.P., 2011, Pertumbuhan Bakteri *Staphylococcus aureus* Pada Media yang diekspos dengan Infus Daun Sambiloto (*Andrographis Paniculata*), *Jurnal Saintek*, **6**(2), 4-6.
- Rios, J.L., dan Recio, M.C., 2005, Medicinal plant and antimicrobial activity, *Journal of Ethnopharmacol*, **100**, 80-84.
- Rosenbach, F.G, 1884, *Mikro-Organismen bei den Wund-infections Krankheiten des Menschen*, Wiesbaden, J. F. Bergmann.
- Rowe, R. C., Sheskey, P., dan Quinn, M. E., 2009, *Handbook of Pharmaceutical Excipients*, 6th Edition, 118-119, 546-573, 794-795, Pharmaceutical Press, London.
- Rukmana, R., 1995, *Budidaya Manggis*, Kanisius, Yogyakarta.
- Shibata, M.A., Matoba, Y., Tosa, H., Iinuma, M., 2013, Effects of Mangosteen Pericarp Extracts Against Mammary Cancer, *AlternInteg Med*, **8**(2), 1-5.
- Sen, A.K., Uusvuori, R., Hase, T.A., Benerji, N., Sarkar, K.K., Mazumder, P.C., 1980, A xanthone from *Garcinia mangostana*, *Phytochemistry*, **19**, 2223-2225.
- Sothornvit, R., 2012, Drying Process and Mangosteen Rind Powder Product, *ActaHort (ISHS)*, **928**, 233-241.
- Srihari, E., dan Lingganingrum, F.S., 2015, Ekstrak Kulit Buah Manggis Bubuk, *Jurnal Teknik Kimia*, Vol. **10**., No. 1.
- Suksamram, S., Suwannapoch, N., Phakhodee, W., Thanuhiranlert, J., Ratananukul, P., Chimnoi, N., Suksamram, A., 2003, Antimycobacterial activity of prenylated xanthoness from the fruits of *Garcinia mangostana*, *Chem Pharm Bull (Tokyo)*, **51**(7), 857-859.
- Suksamrarn, S., Komutiban, O., Ratananukul, P., Chimnoi, N., Lartpornmatulee, N., Suksamrarn, A., 2006, *Cytotoxic Prenylated Xanthoness from the Young Fruit of Garcinia mangostana*, *Chem. Pharm, Bull*, 54, 301-305.
- Sundaram, B.M., Gopalakrishnan, C., Subramanian, S., Shankaranarayanan, D., Kasmeswaran, L., 1983, Antimicrobial Activities of *Garcinia mangostana*, *Planta Med*, **48**, 59-60.

- Suvamakuta, P., Chanchawee, C., Sakamon, D., 2011, Effect of Drying Methods on Assay and Antioxidant Activity of Xanthones in Mangosteen Rind, *Food Chemistry*, **125**, 240-247.
- Torrunguang, K., Vichienroj, P., Chutimaworapan, S., 2013, Antibacterial Activity of Mangosteen pericarp Extract Cariogenic *Streptococcus mutans*, *CU Dent J*, **30**, 1-10.
- Tranggono, I.R., dan Latifah, 2007, *Buku pegangan ilmu pengetahuan kosmetika*, PT Gramedia Pustaka Utama, Jakarta.
- Williams, A.C. dan Barry B.W., 2007, *Chemical Permeation Enhancement in Drug Delivery*, 233-248, 603-618, CRC Press, New York.
- Zatz, J.L., dan Kushla, G.P., 1996, Gels, in Lieberman, H.A., Lachman, L., and Schwatz, J.B., *Pharmaceutical Dosage Forms: Dispers System*, Vol. 2, 2nd edition, pp. 399-405, 408-409, 415, Marcel Dekker Inc., New York.